

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in Cannabis sativa

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(+)-D-BORNESITOL	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
3	(-)-BORNEOL	Plant	--	--		
0	1-METHYL-4-ISOPROPENYL-BENZENE	Plant	--	--		
0	2-C-METHYL-ALDOTETRONIC-ACID	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2-C-METHYL-ALDOTETRONOLACTONE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	3',4'-DIHYDROXY-5,5'-DIMETHOXY-3-(3-METHYL-BUT-2-ENYL)-BIBENZYL	Shoot	--	--		
0	3,3'-DIHYDROXY-4,5'-DIMETHOXY-BIBENZYL	Shoot	--	--		
0	3,3'-DIHYDROXY-4,5'-DIMETHOXY-BIBENZYL	Leaf	--	5		
0	3,4',5-TRIHYDROXY-BIBENZYL	Resin, Exudate, Sap	--	597		
0	3,4'-DIHYDROXY-5-METHOXY-BIBENZYL	Leaf	--	2		
0	3,4'-DIHYDROXY-5-METHOXY-BIBENZYL	Shoot	--	--		
0	4-HYDROXY-BENZOIC-ACID	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	4-HYDROXYBENZOIC-ACID-METHYL-ESTER	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	ACETALDEHYDE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
3	ACETONE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
3	ALANINE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	ALLO-AROMADENDRENE	Essential Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALLO-AROMADENDRENE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	ALLO-AROMADENDRENE	Leaf Essent. Oil	--	--		
0	ALLO-AROMADENDRENE	Resin, Exudate, Sap	--	--		
0	ALPHA-BERGAMOTENE	Leaf Essent. Oil	--	--		
20	ALPHA-BISABOLOL	Flower Essent. Oil	--	--		
20	ALPHA-BISABOLOL	Essential Oil	--	--		
20	ALPHA-BISABOLOL	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	APIGENIN-7-O-P-COUMAROYL-GLUCOSIDE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	APIGENIN-GLYCOSIDE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	APIGENOL-O-GLUCOSIDE	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	ARABINIC-ACID	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ARABINOSE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
1	ARABITOL	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	ARACHIDIC-ACID	Seed	--	--		
0	ARACHIDIC-ACID	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	ARGININE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
112	ASCORBIC-ACID	Seed	--	--	-0.33845664486186666	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ASH	Seed	46000	71000	0.6953913868613637	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	ASPARTIC-ACID	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	AZELAIC-ACID	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
1	BEHENIC-ACID	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
9	BENZYL-ACETATE	Essential Oil	--	--		
9	BENZYL-ACETATE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	BETA-BISABOLENE	Leaf Essent. Oil	--	--		
6	BETA-BISABOLENE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
6	BETA-BISABOLENE	Flower Essent. Oil	--	--		
53	BETA-CAROTENE	Seed	--	0.06	-0.4255580240943812	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	BISABOLENE	Plant	--	--		
35	BORNEOL	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	BORNEOL	Resin, Exudate, Sap	--	--		
35	BORNEOL	Essential Oil	--	--		
0	BORNEOL-ACETATE	Essential Oil	--	--		
0	BORNEOL-ACETATE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
2	CADAVERINE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CALAMENENE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CALAMENENE	Leaf Essent. Oil	--	--		
28	CALCIUM	Seed	1200	1389	-0.5064218426303934	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CALCIUM-OXIDE	Seed	10875	16785	1.3857758982797648	
0	CAMPEST-4-EN-3-ONE	Root	--	--		
0	CAMPEST-4-EN-3-ONE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CAMPEST-5-EN-3-BETA-OL-7-ONE	Root	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CAMPEST-5-EN-3-BETA-OL-7-ONE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CAMPESTANOL	Seed	--	--		
2	CAMPESTEROL	Root	--	--		
2	CAMPESTEROL	Seed	--	--		
2	CAMPESTEROL	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
9	CAMPHENE	Leaf Essent. Oil	--	--		
9	CAMPHENE	Essential Oil	--	--		
9	CAMPHENE	Plant	--	--		
9	CAMPHENE	Resin, Exudate, Sap	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	CAMPHENE	Flower Essent. Oil	--	--		
0	CAMPHENE-HYDRATE	Essential Oil	--	--		
0	CAMPHENE-HYDRATE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
41	CAMPHOR	Essential Oil	--	--		
41	CAMPHOR	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
41	CAMPHOR	Leaf Essent. Oil	--	--		
0	CANABISPIRAN	Leaf	--	--		
0	CANNABAMINE-A	Leaf	--	--		
0	CANNABAMINE-B	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CANNABAMINE-C	Leaf	--	--		
0	CANNABAMINE-D	Leaf	--	--		
0	CANNABICCLOVARIN	Plant	--	--		
0	CANNABICHROMANONE	Resin, Exudate, Sap	--	59		
0	CANNABICHROMANONE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
1	CANNABICHROMENE	Seed	--	--		
1	CANNABICHROMENE	Bud	--	--		
1	CANNABICHROMENE	Resin, Exudate, Sap	--	--		
1	CANNABICHROMENE	Plant	--	--		
1	CANNABICHROMENE	Shoot	--	--		
1	CANNABICHROMENE	Sprout Seedling	--	--		
1	CANNABICHROMENE	Resin Essent. Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	CANNABICHROMENE	Root	--	--		
1	CANNABICHROMENE	Leaf	--	--		
1	CANNABICHROMENE	Inflorescence	--	--		
0	CANNABICHROMENIC-ACID	Leaf	--	510		
0	CANNABICHROMENIC-ACID	Inflorescence	--	--		
0	CANNABICHROMENIC-ACID	Resin, Exudate, Sap	--	--		
0	CANNABICHROMENIC-ACID	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CANNABICHROMEVARIN	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CANNABICHROMEVARINIC-ACID	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CANNABICITRAN	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CANNABICOUMARONIC-ACID	Resin, Exudate, Sap	--	84		
0	CANNABICOUMARONONE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CANNABICYCLOL	Leaf	--	--		
0	CANNABICYCLOL	Inflorescence	--	--		
0	CANNABICYCLOL	Root	--	--		
0	CANNABICYCLOL	Plant	--	--		
0	CANNABICYCLOL	Shoot	--	--		
0	CANNABICYCLOL	Resin, Exudate, Sap	--	--		
0	CANNABICYCLOLIC-ACID	Inflorescence	--	--		
0	CANNABICYCLOLIC-ACID	Plant	--	--		
0	CANNABIDIHYDROPHENANTHRENE	Leaf	--	20		
0	CANNABIDIHYDROPHENANTHRENE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
8	CANNABIDIOL	Inflorescence	--	--		
8	CANNABIDIOL	Seed	--	--		
8	CANNABIDIOL	Bud	--	--		
8	CANNABIDIOL	Fruit	--	20870		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	CANNABIDIOL	Leaf Essent. Oil	--	--		
8	CANNABIDIOL	Plant	--	--		
8	CANNABIDIOL	Root	--	--		
8	CANNABIDIOL	Resin, Exudate, Sap	--	--		
8	CANNABIDIOL	Shoot	--	--		
8	CANNABIDIOL	Sprout Seedling	--	--		
8	CANNABIDIOL	Leaf	--	--		
0	CANNABIDIOL-MONOMETHYL-ETHER	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
3	CANNABIDIOLIC-ACID	Bark	--	--		
3	CANNABIDIOLIC-ACID	Leaf	--	--		
3	CANNABIDIOLIC-ACID	Resin, Exudate, Sap	--	--		
3	CANNABIDIOLIC-ACID	Pollen Or Spore	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	CANNABIDIOLIC-ACID	Root	--	--		
3	CANNABIDIOLIC-ACID	Inflorescence	--	--		
3	CANNABIDIOLIC-ACID	Shoot	--	--		
3	CANNABIDIOLIC-ACID	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CANNABIDIOLIC-ACID-TETRAHYDRO-CANNABITRIOL-ESTER	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CANNABIDIORCOL	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CANNABIDIVARIN	Plant	--	--		
0	CANNABIDIVARIN	Inflorescence	--	--		
0	CANNABIDIVARIN	Shoot	--	--		
0	CANNABIDIVARINIC-ACID	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CANNABIDIVARINIC-ACID	Shoot	--	--		
0	CANNABIDIVAROL	Plant	--	--		
0	CANNABIDIVAROL	Inflorescence	--	--		
0	CANNABIDIVAROLIC-ACID	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CANNABIELSOIC-ACID-A	Resin, Exudate, Sap	--	--		
0	CANNABIELSOIC-ACID-A	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CANNABIELSOIC-ACID-B	Resin, Exudate, Sap	--	--		
0	CANNABIELSOIC-ACID-B	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CANNABIELSOIN	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CANNABIFURAN	Resin, Exudate, Sap	--	--		
0	CANNABIFURAN	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
3	CANNABIGEROL	Inflorescence	--	--		
3	CANNABIGEROL	Resin, Exudate, Sap	--	--		
3	CANNABIGEROL	Leaf	--	--		
3	CANNABIGEROL	Sprout Seedling	--	--		
3	CANNABIGEROL	Shoot	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	CANNABIGEROL	Root	--	--		
3	CANNABIGEROL	Plant	--	--		
0	CANNABIGEROL-MONOMETHYL-ETHER	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
2	CANNABIGEROLIC-ACID	Leaf	--	40		
2	CANNABIGEROLIC-ACID	Inflorescence	--	--		
2	CANNABIGEROLIC-ACID	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CANNABIGEROLIC-ACID-MONOMETHYL-ETHER	Leaf	--	20		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CANNABIGEROLIC-ACID-MONOMETHYL-ETHER	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CANNABIGEROVARIN	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CANNABIGEROVARINIC-ACID	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CANNABINEROLIC-ACID	Leaf	--	8		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CANNABINODIOL	Resin, Exudate, Sap	--	--		
0	CANNABINODIOL	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CANNABINODIVARIN	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
3	CANNABINOL	Leaf	--	--		
3	CANNABINOL	Sprout Seedling	--	--		
3	CANNABINOL	Leaf Essent. Oil	--	--		
3	CANNABINOL	Plant	--	--		
3	CANNABINOL	Root	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	CANNABINOL	Seed	--	8		
3	CANNABINOL	Resin, Exudate, Sap	--	--		
3	CANNABINOL	Flower Essent. Oil	--	--		
3	CANNABINOL	Fruit	--	1275		
3	CANNABINOL	Shoot	--	--		
3	CANNABINOL	Bud	--	--		
3	CANNABINOL	Inflorescence	--	--		
3	CANNABINOL	Bark	--	--		
0	CANNABINOL-METHYL-ETHER	Resin, Exudate, Sap	--	--		
0	CANNABINOL-MONOMETHYL-ETHER	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	CANNABISATIVINE	Plant	--	--		
0	CANNFLAVINS	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CANNIBIDIOL	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	CANNIBIDIOLIC-ACID	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	CHLORIDE	Seed	35	55	-0.75187574414983	
1	CIS-ANETHOLE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
1	CIS-ANETHOLE	Essential Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DEHYDROCANNABIEN-1	Resin, Exudate, Sap	--	--		
0	DEHYDROCANNABIFURAN	Resin, Exudate, Sap	--	--		
0	DEHYDROCANNABIFURAN	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	DELTA-1-TETRAHYDROCANNABINOL	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	DELTA-8-TETRAHYDROCANNABINOL	Plant	--	--		
0	DELTA-8-TETRAHYDROCANNABINOL	Resin, Exudate, Sap	--	--		
0	DELTA-8-TETRAHYDROCANNABINOL	Root	--	--		
0	DELTA-8-TETRAHYDROCANNABINOL	Inflorescence	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	DELTA-9-TETRAHYDROCANNABINOL	Pollen Or Spore	--	--		
2	DELTA-9-TETRAHYDROCANNABINOL	Trichome	--	--		
2	DELTA-9-TETRAHYDROCANNABINOL	Inflorescence	--	--		
2	DELTA-9-TETRAHYDROCANNABINOL	Plant	--	--		
2	DELTA-9-TETRAHYDROCANNABINOL	Shoot	--	--		
9	DELTA-CADINENE	Essential Oil	--	--		
9	DELTA-CADINENE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	DIHYDROACTINIDIOLIDE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	DIHYDROACTINIDIOLIDE	Essential Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EDESTIN	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	EO	Bud	1300	8000	-1.157380807116231	
0	FAT	Seed	296000	358000	0.48782268431804693	
15	FIBER	Seed	165000	206450	0.565927856848296	
0	GAMMA-CADINENE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	GAMMA-CADINENE	Essential Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	GLUCOSAMINE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	GLYCOCOLL	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	HISTIDINE	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	IRON	Seed	120	139	-0.05479437162869729	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	IRON-OXIDE	Seed	460	710	1	
0	ISOBUTYL-AMINE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
1	ISOBUTYRALDEHYDE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	ISOLINOLENIC-ACID	Seed	22000	26850		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ISOVITEXIN-O-GLUCOSIDE	Plant	--	--		J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	KILOCALORIES	Seed	4210	4870	0.008776742466230916	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
27	LINOLEIC-ACID	Seed	207000	250600	1.229332063524583	
0	LINOLENIC-ACID	Seed	22000	26850	-0.11112768826023926	
0	MAGNESIUM-OXIDE	Seed	2620	4050	-1	
0	MUSCARINE	Seed	--	--		
0	N-BUTYL-AMINE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
39	NIACIN	Seed	21	24	-0.5653371145111872	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
18	OLEIC-ACID	Seed	44400	53700	-0.5376546816338774	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	ORIENTIN	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	OXYPROLINE	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	P-ETHYL-BENZYL-ACETATE	Essential Oil	--	--		
0	P-ETHYL-BENZYL-ACETATE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	P-ETHYLBENZALDEHYDE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	P-ETHYLBENZALDEHYDE	Essential Oil	--	--		
7	PHENYLALANINE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	PHOSPHOROUS-OXIDE	Seed	16770	25885		
4	PHOSPHORUS	Seed	9700	11227	1.5521640659289466	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	POTASSIUM-OXIDE	Seed	9290	14440	1	
0	PROPYL-CANNABICHROMENE	Resin, Exudate, Sap	--	--		
0	PROPYL-CANNABIDIOL	Resin, Exudate, Sap	--	--		
0	PROTEIN	Seed	200000	314000	0.713455515228361	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	RIBOFLAVIN	Seed	1.7	2	-0.5841625019907875	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	SEC-BUTYLAMINE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
0	SILICON-DIOXIDE	Seed	5475	8450	-1	
0	SODIUM-OXIDE	Seed	360	550	-1	
0	SULFUR-OXIDE	Seed	85	135	-1	
16	TETRAHYDROCANNABINOL	Plant	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
31	THIAMIN	Seed	3.2	3.7	-0.6881088248838246	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
8	TRANS-ANETHOLE	Plant	--	--		Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
8	TRANS-ANETHOLE	Essential Oil	--	--		
15	TRIGONELLINE	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
29	TRYPTOPHAN	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	WATER	Seed	87500	136000	-0.3515346520842564	